

Patent Abstracts of Japan

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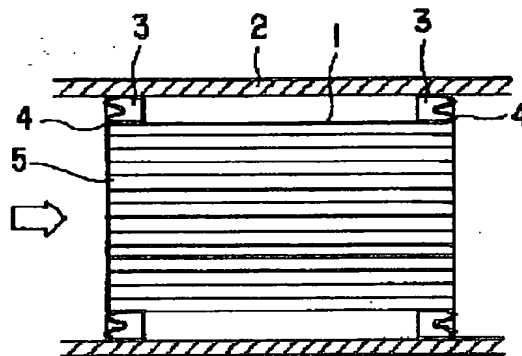
APPLICATION DATE : 19-06-96
APPLICATION NUMBER : 08158627

APPLICANT : NIPPON STEEL CORP;

INVENTOR : OTANI TADAYUKI;

INT.CL. : B01D 53/86 B01J 35/04 F01N 3/28 //
B21D 47/00

TITLE : CATALYTIC CONVERTER MADE OF
METAL AND ITS PRODUCTION



ABSTRACT : PROBLEM TO BE SOLVED: Not only to relax and absorb thermal stress in the radial direction of a honeycomb body but also to sufficiently absorb thermal stress in the axial direction and to heighten adiabatic property to overcome problems of high cost and to improve durability.

SOLUTION: A honeycomb body 1 is fitted in a casing 2 through elastic support bodies 3. The elastic support bodies 3 are installed at least in a waste gas inlet side end part of the honeycomb body 1 and either are joined to only one of the honeycomb body 1 and the casing 2 or are joined to neither of them. The elastic support bodies 3 are restrained in the axial direction by projections or the like which the casing 2 is worked from the outer surface to form. And a space between the honeycomb body 1 and the casing 2 is made to be of adiabatic structure. In this way, the device sufficiently keeps with the use environment stricter than the present situation.

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PUBLICATION NUMBER : 09317456
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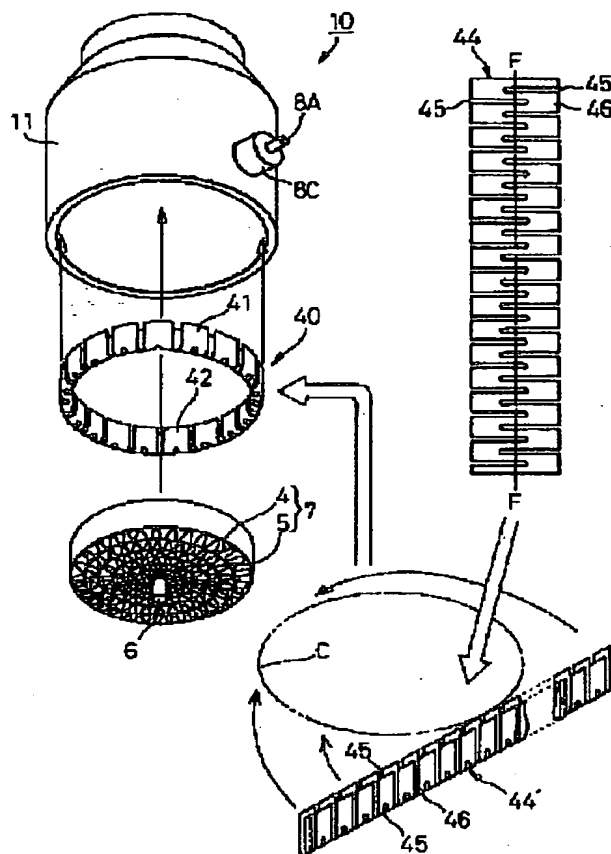
APPLICATION DATE : 28-05-96
APPLICATION NUMBER : 08133677

APPLICANT : NIPPON SOKEN INC;

INVENTOR : SAKURAI KAZUHIRO;

INT.CL. : F01N 3/28 B01D 53/86 B01J 35/02
B21D 47/00 F01N 3/20

TITLE : CATALYST DEVICE FOR HONEYCOMB
BODY



ABSTRACT : PROBLEM TO BE SOLVED: To provide an electric heating type catalyst device with an intermediate cylinder to effectively buffer thermal expansion between an outer cylinder and a honeycomb body, in a honeycomb body for an electric heating type catalyst short in an overall length.

SOLUTION: In an electric heating type catalyst device wherein a cylindrical honeycomb body 7 around which an overlapped body of a corrugated foil 4 and a flat foil 5 are wound is contained in a metallic outer cylinder 11 through an intermediate cylinder 40 and the honeycomb body 7 is energized for heating, the intermediate cylinder 40 forms a double cylinder consisting of outside and inside cylinders 41 and 42. After a long heat resistant metallic sheet 44 is folded in a U-shape along a longitudinal direction, the metallic sheet is molded in a cylindrical state. In the metallic sheet 44 before folding, cuts are alternately formed from two end parts in the direction of width to form slits 45 at intervals of a given distance. When the metallic sheet 44 is folded, the slit 45 and a metallic piece 46 formed by forming the slits 45 are positioned facing each other. The outside cylinder 41 is joined with the metallic outer cylinder 11 and the inside cylinder 42 is joined with the honeycomb body 7.

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